L Number	Hits	Search Text	T DB	T Time Man
-	449	xanthene and (rose adj bengal)	1	Time stamp
		Administration and (rose adj beligal)	USPAT;	2003/01/31 16:16
İ			US-PGPUB;	
			EPO; JPO;	
	70		DERWENT	
•	70	(xanthene and (rose adj bengal)) and (cancer or	USPAT;	2003/01/31 15:00
		chemotherapy or tumor)	US-PGPUB;	
			EPO; JPO;	
			DERWENT	
-	28	((xanthene and (rose adj bengal)) and (cancer or	USPAT;	2003/01/31 15:06
		chemotherapy or tumor)) and (concentration) and (delivery	US-PGPUB;	2003/01/31 13:00
		or deliver)	EPO; JPO;	
			DERWENT	
-	28	(((xanthene and (rose adj bengal)) and (cancer or	USPAT;	2003/01/31 15:07
	İ	chemotherapy or tumor)) and (concentration) and (delivery	US-PGPUB;	2003/01/31 15:0/
		or deliver)) and (aqueous or suspension or solution or cream		
i		or ointment or gel or syrup or suppositor? or tablet or	EPO; JPO;	
]		capsule or spray)	DERWENT	
- 1	9	("9703697").PN.		
		(7705077).FIN.	USPAT;	2003/01/31 16:24
			US-PGPUB;	
			EPO; JPO;	
_		(1) (07/04111) PM	DERWENT	
-	2	("6036941").PN.	USPAT;	2003/01/31 16:24
	İ		US-PGPUB;	
			EPO; JPO;	
			DERWENT	

ANSWER 7 OF 7 WPIDS (C) 2003 THOMSON DERWENT

DOC. NO. CPI:

ACCESSION NUMBER: 1997-132381 [12]

TITLE:

C1997-042719

Fluorogenic substrates for diagnosis and photo-dynamic therapy of tumours - contain masking gps. removable by cell enzymes, partic. those in tumour, give higher ratio

of active cpd. in tumour-healthy cells.

DERWENT CLASS:

B02 B04 D16 J04

INVENTOR(S):

BAGLIONI, P; BOTTIROLI, G; CROCE, A C; MONICI, M

(CNDR) CONSIGLIO NAZ DELLE RICERCHE

PATENT ASSIGNEE(S): COUNTRY COUNT:

72

PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK	LA	PG

WO 9703697 A2 19970206 (199712) * EN 20

RW: AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD

W: AL AM AU AZ BB BG BR BY CA CN CZ EE GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LV MD MG MK MN MW MX NO NZ PL RO RU SD SG SI SK TJ TM TR TT UA UG US UZ VN

AU 9667351 A 19970218 (199723)

WO-9703697 A3 19970410 (199729)

EP 839051 A1 19980506 (199822) EN

R: AT BE CH DE DK ES FR GB IE IT LI LU NL SE

IT 1275571 B 19970806 (199825) US 6036941 A 20000314 (200020)

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9703697 AU 9667351 WO 9703697 EP 839051	A2 A A3 A1	WO 1996-EP3201 AU 1996-67351 WO 1996-EP3201 EP 1996-927559	19960719 19960719 19960719 19960719
IT 1275571 US 6036941	B A	WO 1996-EP3201 IT 1995-MI1560 WO 1996-EP3201 US 1998-11347	19960719 19950719 19960719 19980511

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 9667351	A Based on	WO 9703697
EP 839051	Al Based on	WO 9703697
US 6036941	A Based on	WO 9703697

PRIORITY APPLN. INFO: IT 1995-MI1560 19950719

1997-132381 [12] WPIDS AN

AB 9703697 A UPAB: 19970320

Fluorogenic substrates (FS), capable of fluorescence emission and photosensitisation activity on enzyme transformation, and suitable for diagnosis and photodynamic therapy of tumours, comprise fluorescent substances with high yield of photosensitisation activity, modified chemically by introducing a gp. which quenches these properties, but is removable by enzyme activity in the tumour cells, with restoration of the fluorescence and photosensitisation properties.

The FS consist of Rose Bengal acetate, phosphate, monobutyrate or dibutyrate; haematoporphyrin or protoporphyrin IX monoacetate, diacetate and phosphate; phthalocyanine monoacetate,

diacetate, and phosphate, or hypericin polyacetate or polyphosphate. The FS include derivs. of xanthene, porphyrins, phthalocyanines, chlorines or perylenequinonoid pigments. Quenching gps. include acetate, sulphate, phosphate, dibutyryl ester, galactopyranoside, glucuronide or acetamido-deoxyglucopyranoside.

USE - The substrates are applied in all sectors of diagnosis and photodynamic therapy in oncology. Partic. reference is to tumours in cavities, in conjunction with fibre optic systems and endoscopy, and to topical tumours. Possible applications are in haematic pathologies and purging of bone marrow for autologous transplant. Systemic admin. is as an isotonic saline soln. or a liposome suspension. Topical admin. is from solns. favouring absorption and penetration of the FS, e.g., as a soln. in 50% i-PrOH contg. ca. 2% azone, a penetrant agent. Amts. are 1-10 mg/kg.

ADVANTAGE - The enzyme removing the quenching gp. in the FS is one expressed in greater quantity in the tumour cells, causing preferential accumulation of the active substance in tumour rather than healthy cells. This results in better distinction in outlining the tumour mass, and less damage to healthy cells.

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by enzyme activity in the tumour cells, with restoration of the fluorescence and photosensitisation properties.

The FS consist of Rose Bengal acetate, phosphate, monobutyrate or dibutyrate; haematoporphyrin or protoporphyrin IX monoacetate, diacetate and phosphate; phthalocyanine monoacetate, diacetate, and phosphate, or hypericin polyacetate or polyphosphate. The FS include derivs. of xanthene, porphyrins, phthalocyanines, chlorines or perylenequinonoid pigments. Quenching gps. include acetate, sulphate, phosphate, dibutyryl ester, galactopyranoside, glucuronide or acetamido-deoxyglucopyranoside.

USE. . . pathologies and purging of bone marrow for autologous transplant. Systemic admin. is as an isotonic saline soln. or a liposome suspension. Topical admin. is from solns. favouring absorption and penetration of the FS, e.g., as a soln. in 50% i-PrOH contg. ca. 2% azone, a penetrant agent. Amts. are 1-10. . .

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(FILE 'HOME' ENTERED AT 16:11:54 ON 31 JAN 2003)

FILE 'CAPLUS, MEDLINE, BIOSIS' ENTERED AT 16:12:18 ON 31 JAN 2003

FILE 'CAPLUS, MEDLINE, BIOSIS, WPIDS' ENTERED AT 16:12:23 ON 31 JAN 2003 L120 FILE CAPLUS L21 FILE MEDLINE L_3 7 FILE BIOSIS L48 FILE WPIDS TOTAL FOR ALL FILES L5 36 S HALOGENATED XANTHENE L6 249 FILE CAPLUS L7 22 FILE MEDLINE rs51 FILE BIOSIS

L9 26 FILE WPIDS

TOTAL FOR ALL FILES

L10 348 S XANTHENE AND ROSE AND BENGAL

L11	24 FILE CAPLUS
L12	1 FILE MEDLINE
L13	2 FILE BIOSIS
L14	10 FILE WPIDS
	TOTAL FOR ALL FILES
L15	37 S L10 AND (STABILIZERS OR EMULSIFIER OR DISPERS? OR PRESERVAT?
L16	3 FILE CAPLUS
L17	0 FILE MEDLINE
L18	0 FILE BIOSIS
L19	4 FILE WPIDS
	TOTAL FOR ALL FILES
L20	7 S L15 AND (SUSPENSION OR CREAM OR OINTMENT OR GEL OR SYRUP OR T
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